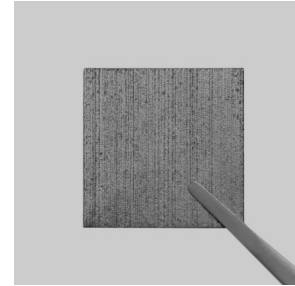


Features:

- Super High Thermal Conductivity
- Low Effective Thermal Resistance
- High Compressibility and Ultra Light

Applications:

IGBT, GPU, CPU, LED, RF Module, 5G devices, Opto and power module cooling



Description:

GT-90S is a very soft graphene enhanced thermal Interface material. It has extremely low effective thermal resistance (6.5 Kmm²/W at 275 kPa). Moreover, the GT-90S has advantages of low density, low complexity during assembly and good maintainability. GT-90S opens new opportunities for addressing large heat dissipation issues in electronics and other high power driven systems.

Physical Properties	Value	Units	Test Method
Thermal Conductivity	90 ± 5	W/mK	ASTM5470
	400±50	W/mK	LFA447
Thermal Resistance	6.7 ± 0.5 (275KPa, 300µm)	Kmm ² /W	ASTM5470
Thickness Range for Production	0.3-1*	mm	Micrometer
Thickness Range for Prototype	0.2-0.3 & 1-3**	mm	Micrometer
Thickness Tolerance	3-10***	%	Micrometer
Pad Size	Up to 55*55	mm ²	-
Compressibility	>50	%	-
Compressive Strength	690±50 (300µm)	kPa	At 50% compression
Recovery	>70	%	-
Tensile strength	50±20	KPa	Tensile tester
Surface Roughness (Ra)	5±3	µm	Wyko NT1100 optical profilometer
Surface Roughness (Rz)	30±15	µm	Wyko NT1100 optical profilometer
Temperature Range	-40 to 200	°C	-
Flammability	V-0		UL94
Specific Heat	0.2-0.3	J/g.K	Hotdisk
Density	0.43±0.03	g/cm ³	Balance and Micrometer
Color	Grey	-	-

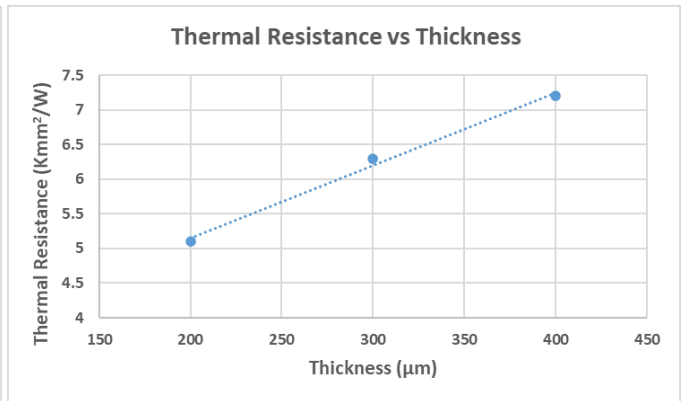
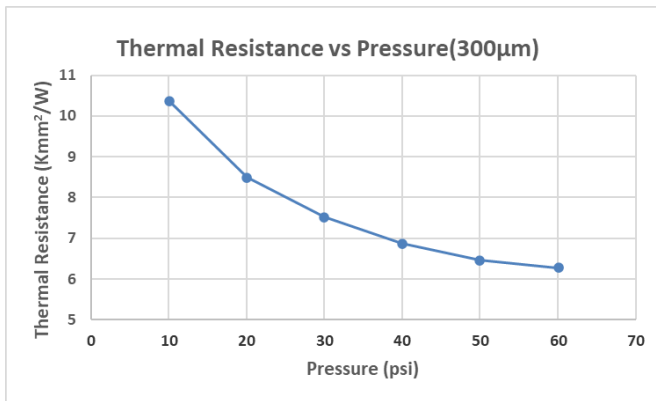
Notes:

* Quality is guaranteed for production

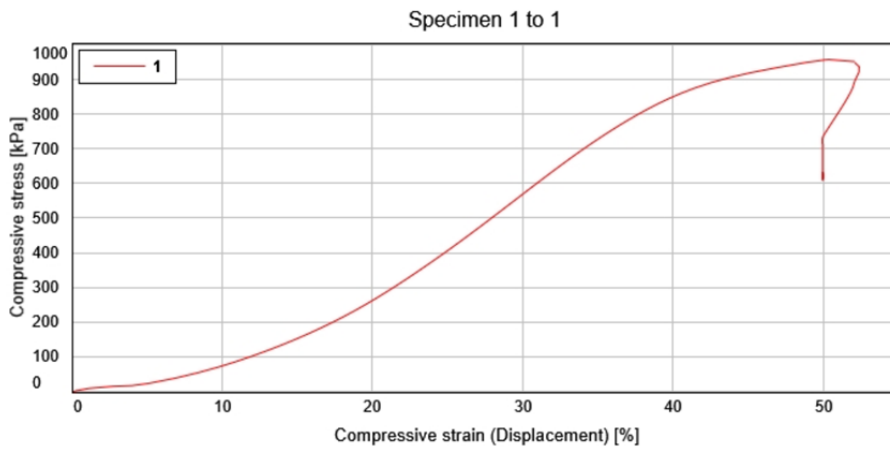
** This thickness range is available for prototype.

*** Price is different depending on the tolerance requested.

GT-90S



Compressive Stress vs Strain Curve at 50% compression (300 μ m)



Tensile Strength



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